

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8806	(436/501, 436/63, 436/98, 436/104, 436/111, 422/82.01).ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/10 15:33
L2	141	L1 and (capacitive capacitance) with (sensor biosensor detector)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 15:34
L3	18	L2 and (conductive "non-conductive") with (label reporter target probe ligand nanoball nanoparticle)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 15:35
S1	2	("20010053522"   "5922537").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/06 15:33
S2	21996	(detect\$3 or measure\$4 or determin\$5 or analyz\$3) near3 ((sample or analyte or target or nucleic or protein) with (substrate or support or membrane or surface))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:09
S3	24513	(detect\$3 or measure\$4 or determin\$5 or analyz\$3 or sens\$3) near3 ((sample or analyte or target or nucleic or protein) with (substrate or support or membrane or surface))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:11
S4	21577	((capacitive or capacitor) or (charge near2 separat\$3)) near3 (sensor or detector)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:14
S5	404	S3 and S4	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:14
S6	1	"20050227373".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:15
S7	1	S5 and S6	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:15
S8	161	S5 and @ay< "2003"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:18
S9	161	S8 not (highway and oil)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:21
S10	114	S8 not (highway and oil)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:21
S11	17	S10 and (DNA or nucleic or protein or oligonucleotide or polynucleotide)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:28

S12	2	("20010053522"   "5922537").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/16 14:38
S15	15	("4233144", "4238757", "4180771", "4334880", "4444892", "4219335", "4054646", "4072576", "4287300", "4446238", "4420558", "4822566", "5468427", "55230654824529", "3954666", "3983299").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 11:57
S16	28345	((capacitive or capacitor or capacitance) or (charge near2 separat\$3)) near3 (sensor or detector)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 11:58
S17	24712	((detect\$3 or measure\$4 or determin\$5 or analyz\$3 or sens\$3) near3 ((sample or analyte or target or nucleic or protein) with (substrate or support or membrane or surface)))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 12:00
S18	635	S16 and S17	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 12:00
S19	34193	((detect\$3 or measure\$4 or determin\$5 or analyz\$3 or sens\$3) near4 ((sample or analyte or target or nucleic or protein) with (substrate or support or membrane or surface)))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 12:03
S21	852	S16 and S19	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 12:06
S22	319	S21 and @ad< "20020624"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 12:08
S23	195	S22 and electrode	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/07 12:10
S24	0	"2003096321".PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 12:36
S25	0	"2003124522".PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 12:36
S26	0	"2003124522".PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2008/07/07 12:36
S27	0	"2003124522".pn.	US-PGPUB; USPAT; USOCR	AND	OFF	2008/07/07 12:37
S28	449	S21 not electrode	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 13:21
S29	403	S21 not S28	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 13:21
S30	163	S22 not electrode	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 13:22

S31	156	S22 not S30	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 13:22
S32	55	S21 and (interdigital or interdigitat\$3) with electrode	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 14:06
S33	4	S21 and ((interdigital or interdigitat\$3) with electrode) and ((conduct\$3) with (label or tag))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 14:08
S34	2	("5922537", "6440662").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 14:37
S35	1	S31 and ((conduct\$3) with (label or tag))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 14:57
S36	1	S31 and ((conduct\$3 or metal\$3) with (label or tag))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 14:58
S37	4	S21 and ((interdigital or interdigitat\$3) with electrode) and ((conduct\$3) with (label or tag or reporter))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 14:59
S38	29106	((capacitive or capacitor or capacitance) or (charge near2 separat\$3) or (non adj ohmic) or (non adj conduct\$3)) near3 (sensor or detector)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 15:07
S39	761	S38 not S16	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 15:08
S40	55	S39 and S17	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 15:08
S41	101	S30 and (nanotag or nanoparticle or nanobead) or conductive adj (label or tag or reporter)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 15:13
S42	133	S21 and (nanotag or nanoparticle or nanobead) or conductive adj (label or tag or reporter)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 15:14
S43	1	"6922081".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 16:27
S44	53	(flandre-denis, moreno-luis, pamplin-remi, bourgeois-david, remacle-jose, lobert-pierre-emmanuel).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 17:07
S45	3	S44 and capacitive	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/07 17:13
S46	2	("20010053522"   "5922537").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 09:48

S47	962	(electrode with (cross\$3 near4 (fingers or digits or points))) or ((cross\$3 near3 interdigitat\$3) with electrode)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 13:46
S48	115	((electrode with (cross\$3 near4 (fingers or digits or points))) or ((cross\$3 near3 interdigitat\$3) with electrode)) same (capacitor or capacitive or capacitance)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 13:47
S49	82	((electrode with (cross\$3 near4 (fingers or digits or points))) or ((cross\$3 near3 interdigitat\$3) with electrode)) with (capacitor or capacitive or capacitance)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 13:48
S50	24	((electrode with (cross\$3 near4 (fingers or digits or points))) or ((cross\$3 near3 interdigitat\$3) with electrode)) same (sensor or biosensor)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 13:54
S51	309	(MOS or EEPROM) with ((capacitive or capacitance or capacitor) and gate) same (sensor or biosensor)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 14:06
S52	4	S51 and (protein or DNA or nucleic)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 14:06
S53	26	(matrix with sensor with DNA)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 14:18
S54	0	(matrix with sensor with DNA with capacit\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 14:19
S55	0	(matrix with sensor with DNA) same capacit\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/08 14:20
S56	7	(matrix with sensor with DNA) and (point with electrode)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/08 14:27
S57	0	S50 and (address\$3 near3 pair)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/08 15:21
S58	0	S50 and (address\$3 near3 (pair or point))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/08 15:21
S59	27	(three near2 electrode) with (system and (capacitance or capacitive))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/09 11:30
S60	1	"6236096".PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/09 12:08
S61	1	"6682936".PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/09 12:24
S62	3	(aluminum near3 electrode) with (capacitive near3 (sensor or biosensor))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/09 13:50

S63	1	(aluminum near3 electrode) with (capacitive near3 (sensor or biosensor))	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/07/09 13:51
S64	102	(aluminum near2 electrode) with (sensor or biosensor)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 14:27
S65	3	S64 and (protein or nucleic or DNA)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 14:29
S66	2	(alumina near2 (non adj conducting)) with (sensor or biosensor)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 14:41
S67	1080	alumina with (vapor adj deposition)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 15:01
S68	42	(alumina with (vapor adj deposition)) same sensor	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 15:02
S69	4	alumina with ((vapor adj deposition) and attachment)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 15:04
S70	1	"20030226768".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 15:08
S71	41620	435/6.ocds.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 16:20
S72	21829	((capacitive or capacitor) or (charge near2 separat\$3)) near3 (sensor or detector)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 16:20
S73	43	S71 and S72	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/10 16:20
S74	1	"20020050173".pn.	US-PGPUB; USPAT	OR	OFF	2008/07/21 08:29
S75	1	"6236096".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/21 08:55
S77	14	("20010053522"   "20020005580"   "20020050173"   "20020086119"   "20020166764"   "20030096321"   "20030124522"   "20030136960"   "5917264"   "5922537"   "5922537"   "6236096"   "6514394"   "6627154"   "6682936").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 09:53
S78	42902	(detect\$3 or measure\$4 or determin\$5 or analyz\$3 or sens\$3) near3 ((sample or analyte or target or nucleic or protein or label) with (substrate or support or membrane or surface or layer))	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 11:10

S79	125659	(conductive or metal\$3) with (sample or analyte or target or nucleic or protein or label)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 11:12
S80	23356	((capacitive or capacitor) or (charge near2 separat\$3)) near3 (sensor or detector)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 11:12
S81	205	S78 S79 S80	US-PGPUB; USPAT; USOCR	AND	ON	2009/02/05 11:12
S83	56	S81 and @ad- "20020624"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 11:14
S84	1	"4219335".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 11:20
S85	37	non adj conducting adj electrode	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 12:46
S86	10240	((non adj conduct\$3) or insulat\$3) adj electrode	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 12:47
S87	2	S81 and S86	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 12:48
S88	11	US-20040058450-\$.D.ID. OR US-6977033-\$.D.ID. OR US-20030224528-\$.D.ID. OR US-20030012693-\$.D.ID. OR US-7235389-\$.D.ID. OR US-7172897-\$.D.ID. OR US-6958132-\$.D.ID. OR US-6772642-\$.D.ID. OR US-6690179-\$.D.ID. OR US-6551838-\$.D.ID. OR US-6485905-\$.D.ID. OR US-5466348-\$.D.ID	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 14:35
S89	2	S88 and ((capacitive or capacitor) or (charge near2 separat\$3)) near3 (sensor or detector)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 14:35
S90	1	"20050227373"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/06 12:23
S91	1	"3767438".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 10:29
S92	1	"5399106".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 10:35
S93	6	(capacitive with (detection or coupling)) same non-ohmic adj contact	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 10:43
S94	1	(capacitive with detection) same non-ohmic adj contact	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 10:44
S95	1	(capacitive or capacitance) with (measure\$4 or detect \$3) same non-ohmic adj contact	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 11:05
S96	133	gold with (silver near2 precipitation)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 11:07

S97	86	S96 and @ad< "20020624"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 11:08
S98	0	S97 and (capacitance or capacitive)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 11:08
S99	613	gold and (silver near2 (precipita\$4 or deposit\$3)) and (capacitance or capacitive)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 13:09
S100	62	gold and (silver near2 (precipita\$4 or deposit\$3)) same (capacitance or capacitive)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/13 13:10
S101	0	interdigitating with electrode with ((pair or individual\$2) with address\$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/13 14:30
S102	709	((interdigitating or parallel or finger) with electrode) with ((pair or individual\$2) with address\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/13 14:31
S103	15	((interdigitating or finger) with electrode) with ((pair or individual\$2) with address \$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/13 14:32
S104	0	(Ag silver Au gold precious adj metal) with (label\$3 tag \$4 reporter) with (capacitance capacitive capacitor) with sensor	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/02 12:51
S105	0	(Ag silver Au gold precious adj metal) with (label\$3 tag \$4 reporter) with (capacitance capacitive capacitor) with sensor	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/02 12:51
S106	1	(Ag silver Au gold precious adj metal) with (label\$3 tag \$4 reporter) with (capacitance capacitive capacitor) with sensor	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/02 12:51
S107	9	(Ag silver Au gold precious adj metal conductive) with (label\$3 tag\$4 reporter) with (capacitance capacitive capacitor) with sensor	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/02 12:53
S108	35	(Ag silver Au gold precious adj metal conductive) with (label\$3 tag\$4 reporter) with (capacitance capacitive capacitor) with sensor	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/02 13:04
S109	1	"7470533".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/02 13:13
S110	136	(hanke-hans-christian, paulus-christian, schienle- meinnrad, thewes-roland).in.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/02 13:17

S111	2	S110 and conductive with label	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/02 13:18
S112	0	electrode with "non-conducting" with "contact \$3" same (capacitive capacitance capacitor)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/02 13:50
S113	73	electrode with "non-conducting" with contact\$3 same (capacitive capacitance capacitor)	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/02 13:50
S114	2	electrode with "non-conducting" with contact\$3 same (capacitive capacitance capacitor)	FPRS; EPO; JPO; DERWENT	OR	ON	2009/12/02 14:05
S115	0	("2006/0226030").URPN.	USPAT	OR	OFF	2009/12/02 14:36
S116	3	("5922537", "6440662", "4794089").pn.	USPAT	OR	OFF	2009/12/02 14:42
S117	1	"5114674".pn.	USPAT	OR	OFF	2009/12/02 15:21
S118	8728	(deposit\$3 precipitat\$3) with (metal gold silver conductive) same (capacitance capacitive)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/17 10:44
S119	31421	(measur\$3 measurement detect\$3) near2 (capacitance capacitive)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/17 10:46
S120	1172	S118 and S119	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/17 10:46
S121	88440	("non-conduct\$3" insulat\$3) with surface with electrode	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/17 10:47
S122	128	S120 and S121	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/17 10:47
S124	7750	distance with electrodes with ".mu.m"	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/28 10:55
S125	71364	((capacitive capacitor capacitance) or (charge near2 separat\$3)) with (biosensor sensor detector)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/04/28 10:57
S126	345	S124 and S125	US-PGPUB; USPAT; USOCR	OR	OFF	2010/04/28 10:57



S127	142	("4219335"   "4454007"   "4510436"   "4731337"   "4766062"   "4769121"   "4797363"   "4822566"   "4824529"   "4857273"   "4880752"   "4925788"   "4999284"   "5001048"   "5104791"   "5156972"   "5192507"   "5196306"   "5262299"   "5344784"   "5403484"   "5427908"   "5432018"   "5447845"   "5464741"   "5501986"   "5516637"   "5674698").PN. OR ("5922537").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/01 14:29
S128	15	S127 and electrode with (width distance micron micrometer micrometre)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/01 14:29
S129	8	S128 and (capacitance capacitive)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/01 14:30
S130	6	S128 and (capacitance capacitive) with (sensor biosensor measur\$3 measurement determin\$3 determination)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/01 14:33
S131	5	("4219335", "4822566", "5219577", "5429824", "4824529").pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/08 17:31
S132	397	(capacitance capacitive) with (sensor biosensor) and "204"/\$.ccis.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/09/10 08:50
S133	63316	(label reporter nanoball nanoparticle) with (target ligand probe)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 08:54
S134	18	S132 and S133	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 08:54
S135	6552	(label reporter nanoball nanoparticle) with (conductive "non- conductive" insulat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 09:23
S136	4	S134 and S135	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 09:23
S137	41979	(capacitance capacitive) with (sensor biosensor)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 09:27
S138	29	S133 and S135 and S137	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 09:27
S139	9732	(label\$2 reporter nanoball nanoparticle) with (conductive "non- conductive" insulat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 11:09
S140	30	S133 and S139 and S137	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 11:10

S141	1	S140 not S138	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 11:10
S142	7967	(label\$2 reporter nanoball nanoparticle) with electrode	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 11:11
S143	13	S133 and S139 and S137 and S142	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/10 11:11

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	1	(436/501 or 436/63 or 436/98 or 436/104 or 436/111 or 422/82.01). ccls. and (method capacitive detection target sample substrate binding selective binding sites directly indirectly labelled conductive labels sensing presence bound determine capacitive detection).dlm.	US-PGPUB; USPAT; UPAD	AND	ON	2010/09/10 15:44

**9/ 10/ 2010 3:48:14 PM****C:\Documents and Settings\kingan\My Documents\EAST\Workspaces\Flandre\_10519014.wsp**